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## A centrifugal fotor comprising: 5.

a rotor body domprising a liquid-dispensing chamber containing a liquid, a liquid-receiving chamber, and a siphon;

the siphon being connected to the liquid-dispensing chamber through a siphon inlet and connected to the liquid-receiving chamber through a siphon outlet, the siphon inlet being radially inward of the siphon outlet, said siphon traveling radially inward to a point radially inward of said siphon inlet and then radially outward to said siphon outlet; the rotor further comprising:

a cuvette containing reagents necessary for the analysis of a biological sample, wherein said cuvette is radially outward of said liquiddispensing chamber and said liquid-receiving chamber, and;

a distribution ring which permits flow of a liquid to said cuvette from an output siphon connected to the liquid-receiving chamber.

6. A centrifugal rotor comprising:

a rotor body comprising a liquid-dispensing chamber containing a liquid, a liquid-receiving chamber, and a siphon;

the siphon being connected to the liquid-dispensing chamber through a siphon inlet and connected to the liquid-receiving chamber through a siphon outlet, the siphon inlet being radially inward of the siphon outlet, said siphon traveling radially inward to a point radially inward of said siphon inlet and then radially outward to said siphon putlet; the rotor further comprising:

a distribution ring positioned radially outward of the liquid receiving chamber; and

a delivery channel connecting the distribution ring to the liquidreceiving chamber, said distribution ring being connected to a cuvette through an inlet channel.

- 7. The rotor of claim 6, wherein the inlet channel has a cross sectional area at least about 1.5 times the cross sectional area of the delivery channel.
- 8. The rotor of claim 7, wherein the cross sectional area of the inlet channel is about 2 times the cross sectional area of the delivery channel.
- 9. The rotor of claim 7, wherein the cross sectional area of the delivery channel is about 0.03 mm<sup>2</sup>.

| 10. | The rotor of claim 6, wherein the delivery channel is a siphon. |  |  |  |  |
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11. A method of delivering a premeasured volume of liquid from a first chamber to a second chamber in a rotor, the method comprising:

providing a rotor comprising a first chamber with a first volume, a second chamber, and a siphon connected to the first chamber through a siphon inlet and connected to the second chamber through a siphon outlet, the siphon inlet being radially inward of the siphon outlet;

spinning the rotor, thereby introducing an unmeasured volume of liquid into the first chamber;

stopping the rotation of the rotor, thereby priming the siphon connecting the first chamber to the second chamber; and

spinning the rotor, thereby initiating the operation of the siphon and delivering the premeasured volume of the liquid from the first chamber to the second chamber, the premeasured volume being determined by the radial position of the siphon outlet and the first volume of the first chamber.